

**Abstract of the Disclosure**

A flexible, scalable hardware and software platform that allows a service provider to easily provide internet services, virtual private network services, firewall services, etc., to a plurality of customers. One aspect provides a method and system for delivering security services. This includes connecting a plurality of processors in a ring configuration within a first processing system, establishing a secure connection between the processors in the ring configuration across an internet protocol (IP) connection to a second processing system to form a tunnel, and providing both router services and host services for a customer using the plurality of processors in the ring configuration and using the second processing system. a packet routing system and method is described that includes a processor identifier in each packet to route the packets to a physical processor, and a logical queue identifier to route the packets to the destination object within that processor.

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